

Spinn No.	Known section Wt%	Load @ 30 Up Op 1 d	Load @ 50 Up Op 1 d	Load @ 30 Dn Op 1 d	Load @ 50 Dn Op 1 d	TEA (E4) Op 1 kg/mm	TEA (R4) Op 1 kg/mm	% Hyster Loss Op 1 %	Load @ 30 Up Op 2 d	Load @ 50 Up Op 2 d	Load @ 30 Dn Op 2 d	Load @ 50 Dn Op 2 d	TEA (E4) Op 2 kg/mm	TEA (R4) Op 2 kg/mm	% Hyster Loss Op 2 %	Immed Str % Op 1 %	Immed Str % Op 2 %	Load Loss at 50% d	
Control	1	0.0%	335	831	-18	678	0.194	0.033	82.8	33	767	-22	655	0.086	0.032	63.3	35.387	36.7	210.974
	2	0.0%	473	964	-15	787	0.254	0.042	83.6	58	888	-21	759	0.11	0.042	61.6	34.199	36.538	212.451
	3	0.0%	409	934	-17	763	0.227	0.041	81.8	42	862	-22	738	0.103	0.04	61.2	34.632	36.025	210.054
	4	0.0%	373	861	-18	697	0.208	0.035	83.2	34	789	-23	673	0.091	0.034	62.8	35.341	36.599	218.703
1st	1	35.0%	480	933	-3	760	0.26	0.049	81.1	73	848	-10	726	0.112	0.045	59.6	32.512	34.27	222.332
	2	35.0%	539	1049	-3	851	0.292	0.055	81.2	78	950	-10	809	0.125	0.051	58.8	32.37	34.144	228.89
	3	35.0%	601	1154	0	939	0.323	0.06	81.3	88	1051	-9	899	0.14	0.059	58	31.867	33.689	220.98
2nd	1	65.0%	516	1008	3	832	0.279	0.059	78.9	96	916	-7	787	0.128	0.054	58.2	31.151	33.206	219.291
	2	65.0%	618	1088	6	889	0.323	0.063	80.5	116	980	-5	842	0.142	0.06	57.9	30.488	32.688	211.628
	3	65.0%	670	1198	9	987	0.363	0.072	79.6	123	1092	-4	941	0.158	0.068	57	30.132	32.288	214.511
3rd	1	40.0%	629	1138	5	941	0.332	0.069	79.3	107	1041	-6	899	0.147	0.064	56.7	30.714	32.775	210.6
	2	40.0%	550	1059	-2	878	0.293	0.067	80.5	77	977	-10	833	0.13	0.055	57.8	32.119	33.98	220.908
	3	40.0%	520	953	0	790	0.272	0.062	80.9	83	873	-9	750	0.119	0.05	58.3	31.793	33.639	212.73
4th	1	100.0%	687	1142	19	930	0.366	0.069	81.2	148	1016	4	875	0.155	0.064	58.4	28.52	31.069	233.821
	2	100.0%	708	1192	18	983	0.373	0.072	80.8	150	1071	2	922	0.164	0.07	57.3	28.817	31.26	226.97
	3	100.0%	731	1184	23	976	0.385	0.073	80.9	168	1082	6	906	0.168	0.07	58.1	28.066	30.633	234.636
5th	1	60.0%	619	1133	9	926	0.329	0.065	80.4	115	1031	-2	880	0.146	0.063	57.2	30.133	32.303	215.08
	2	60.0%	676	1154	11	950	0.362	0.068	80.7	130	1062	-2	887	0.154	0.065	57.9	29.761	32.053	222.192
	3	60.0%	758	1339	13	1094	0.398	0.078	80.4	140	1219	-1	1052	0.177	0.077	56.6	29.602	31.805	213.999

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Table 1

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# Mechanical Properties of Screen Printed Materials

	Elastomer add-on wt%	% Hyster Loss Cyc 1 %	% Reduction vs Control %	Immed Set % Cyc 1 %	% Reduction vs Control %	Immed Set % Cyc 2 %	% Reduction vs Control %	Modulus of Elasticity psi	% Improve vs Control %
Control	0%	83%	N/A	35%	N/A	36%	N/A	21	N/A
Sample 1sp	35%	81%	2%	32%	10%	34%	6%	51	140%
Sample 3sp	40%	80%	3%	32%	11%	33%	7%		
Sample 5sp	60%	81%	3%	30%	16%	32%	11%	64	200%
Sample 2sp	65%	80%	4%	31%	14%	33%	9%	70	236%
Sample 4sp	100%	81%	2%	28%	20%	31%	14%	121	470%

Table 3

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# Mechanical Properties of E-Spin Materials

Table 4

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	Elastomer add-on wt%	% Hyster Loss Cyc 1 %	% Reduction vs Control %	Immed Set % Cyc 1 %	% Reduction vs Control %	Immed Set % Cyc 2 %	% Reduction vs Control %	Modulus of Elasticity psi	% Improve vs Control %
Control	0%	83%	N/A	35%	N/A	36%	N/A	21	N/A
Samples	2.5%	81%	3%	32%	8%	34%	6%	31	40%
Samples	5%	80%	3%	34%	4%	35%	2%	39	80%
Samples	7.5%	81%	2%	32%	9%	34%	6%	43	100%
Samples	9%	80%	4%	32%	10%	34%	6%	-	-
Samples	10%	81%	2%	33%	6%	35%	4%	44	100%